2019 CBusStudentHack: Coding for Community - Judging Rubric

School Name:

School District:

Team Name:

Group:

Judge Name:

Criterion	Criteria Details	Demonstration tips for students	Exceptional	Good	Fair	Needs Improvement	Score
Theme (Energy)	• Is the app related to theme? • Is the app interesting and complex? • Has the connection to the theme been clearly defined?	Provide clear documentation on the relation to the theme as part of interim report and final project report so judges can clearly understand the connection. Demonstrate that relation clearly to judges during presentation.	The app is related to or inspired by theme. The designed app is exceptionally complex and interesting. There is clear and well defined connection to the theme.	The app is related to or inspired by theme. The designed app is complex and interesting. There is a good attempt to connect to the theme.	The app is indirectly related to or inspired by theme. The designed app is fairly complex and interesting. There is some documentation to explain the apps connection to the theme. Documentation is fairly well defined and clear.	The app is not related to or inspired by theme. The designed app is very basic, very simple and uninteresting. Requirements cannot be comprehended and/or no documentation exists.	[0 - 10]
			[9-10]	[7-8]	[4-6]	[0-3]	
Innovation of Project Solution/Implementation	• Is the application designed completely innovative or does it rely on an existing concept?	Can be demonstrated via your project solution as judges see your project running. Your project solution should stress the obstacles, learning experience, and innovative ideas.	Impressive solution. Completely new and does not rely on any existing concept. Very creative.	Good Solution and does not rely on an existing concept.	Fairly good solution and relies on an existing concept.	Poor solution and relies on an existing and very common concept.	[0 - 15]
			[13-15]	[10-12]	[6-9]	[0-5]	
Development	• Is the code well organized and easy to follow? • Does the application have documentation to clearly mention how project was built (for e.g., interfaces with any hardware or external devices or other applications etc.,)? • How well did the team understand the code, the behavior and functionality of the application? • Did all of the team members have a reasonable understanding of the application and its functionality?	The quality of the app must be demonstrated with a 5-6 minute video on YouTube that walks through your code and shows the running app. Also, clear documentation in your final report on how the project was built should be provided. We highly recommend that all team members participate in the presentation video.	The code is exceptionally well-organized and easy to follow. There is clear and well defined documentation to explain how project was built. Demonstrates thorough understanding of concepts and appropriate use of general programming language features.	The code is organized and fairly easy to follow. Documentation is helpful in explaining how project was built. Demonstrates considerable understanding of concepts and appropriate use of general programming language features.	The code is not well organized but is moderately easy to read. Documentation is somewhat useful in understanding the how project was built. Demonstrates some understanding of concepts and appropriate use of general programming language features.	The code cannot be comprehended. No documentation is available. Demonstrates no/limited understanding of concepts and appropriate use of general programming language features.	[0 - 15]
			[13-15]	[10-12]	[6-9]	[0-5]	
Functionality/Usability/ Security	• Does the app work as expected? • Does the app validate data (or fail on bad and out of range entries)? • Is the app easy to use? • Is it intuitive; easy to see what's going on? • Is there a consistent user interface?	The application must be designed to securely run on mobile devices such as smartphones and tablet computers. Can be demonstrated by means of the actual operation/working of the application and will be judged by testing the application's user interface.	The app works exceptionally well. The app validates bad and out of range data entries, throws appropriate error messages and handles exceptions. Excellent user interface. Excellent security practices.	The app works very well, validates bad and out-of-range entries. Throws relevant error messages to a good extent. Good user interface. Most security needs addressed, i.e encryption, privacy, secure protocols.	The app works fairly well. Does little validation of bad and out-of-range input. The app throws fairly relevant error messages. Satisfactory user interface. Basic security needs addressed.	The app fails all or most of the time, mishandles bad input and throws incorrect error messages or does not validate bad data and throws no error messages or if application crashes. Poor user interface. Not secure.	[0 - 15]
			[13-15]	[10-12]	[6-9]	[0-5]	
Community Impact	• Is the app practically usable and relevant to the theme? • Will people use the app or is the solution only theoretical? • Does the application impact a large number of people?	Can be demonstrated by the actual application itself and features of the application as mentioned in the final project report.	The application is highly relevant to the theme and has significant broader impact.	The application is highly relevant to the theme and has broader impact.	The application is relevant to the theme and has some broader impact.	The application is not relevant to the theme and has no broader impact.	[0 - 15]
			[13-15]	[10-12]	[6-9]	[0-5]	
Project Reporting	• Final project reporting. How well did the team document their project details? • Was all project information captured?	Can be demonstrated through final project reporting. Students must use the final project report template that has been provided by CBusStudentHack.	Final report was submitted. Report was detailed and extremely clear.	Final report was submitted. Report was clear and had a good amount of detail.	Final project report was not very clear and did not have all necessary information (as provided in the final project report template).	No final project report was submitted.	[0 - 10]
			[9-10]	[7-8]	[4-6]	[0-3]	

Live Presentations	Clarity of presentation. How well did the team explain their solution? Was the presentation organized? Did the team manage presentation time? How well did the team handle questions?	Can be demonstrated via project presentation. Teams are free to use any PowerPoint/Prezi or other types of presentations or other types of visual aids/support materials for their final project presentations.	Very well organized presentation with logical progression. Excellent use of support materials/ visual aids for presentation. Clearly the work of students from beginning to end including all presentation material. No evident errors and well rehearsed. Excellent use of time.	Well organized presentation with logical progression. Good use of support materials/ visual aids for presentation. Mostly the work of students from beginning to end including all presentation material. Very few evident errors and well rehearsed. Presentation completed on time.	Fairly well organized presentation with logical progression. Satisfactory use of support materials/ visual aids for presentation. Adult intervention apparent. Some evident errors and should have rehearsed more. Presentation slightly long or short.	Presentation rambles. No visual aids or support material was used. Excessive adult intervention. Too many errors and not rehearsed. Too long or short.	[0 - 20]
			[17-20]	[13-16]	[7-12]	[0-6]	
Total Score							
Overall Judge Comments							